

Abstract of the Disclosure

A virtual multichannel sound system is presented to improve audio reproduction by statically or dynamically conforming signal processing to specific speaker characteristics and/or arrangements. According to one such aspect, one or more dynamic signal processing algorithms driving two or more speakers are altered in response to the relative physical characteristics or arrangements of these speakers, where parameter information for these algorithms is either factory set, user input, or automatically supplied to the processor. Examples of such relative speaker differences include speaker spacing or alignment, speaker or enclosure compliance, and enclosure configuration. Another aspect is to alter the processing algorithms in response to common speaker characteristics for certain conditions of input signals. An example of this aspect is to alter the signal processing to improve bass response as a function of bass content in the signals being presented to the speakers and speaker size as well as relative speaker position.

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